The AH-4 Air Hydraulic Intensifier is a device used to convert air pressure to hydraulic pressure. It is a combination of two components, a specially designed Rotochamber and Hydraulic Master Cylinder.

The AH-4 is used to provide pressure to hydraulic disc brakes on air braked vehicles. The units are used on both on-highway and off-highway vehicles.

For complete service/maintenance information see service data sheet SD-11-1.

Maintenance kits for master cylinders:
For Brake Fluid — Pc. No. 289286
For Mineral Oil — Pc. No. 289287

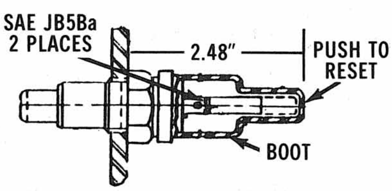
Power Ratio — 23.5:1
Max. Displacement — 6 cu. in.

Weight — Remote Res. — Approx. 39 Lbs.
Integral Res. — Approx. 42 Lbs.

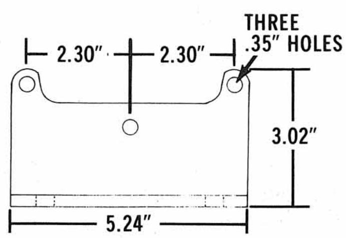
VMRS No. 13-006

Note: Detail part numbers may differ depending on type of fluid (mineral oil or brake fluid) used, and should not be interchanged.

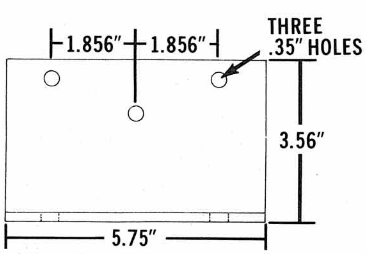
For Intensifier with Type 36 Rotochamber, see Catalog 11-A-1.



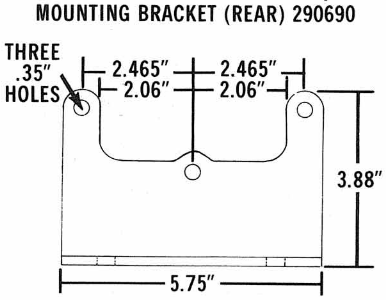
STROKE WARNING SWITCH 287131



MOUNTING BRACKET 290681

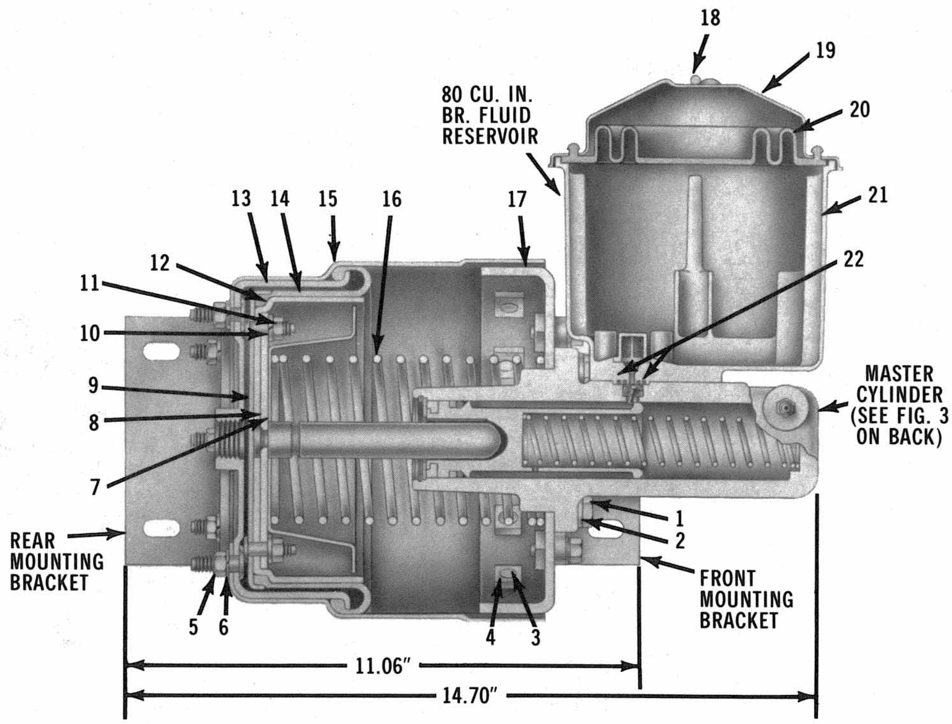


MOUNTING BRACKET (REAR) 290690



MOUNTING BRACKET (FRONT)
290691

TYPE 50 ROTOCHAMBER



COMMON SERVICE PARTS

NO.	PC. NO.	QTY.	DESCRIPTION	NO.	PC. NO.	QTY.	DESCRIPTION
1	241957	4	CAP SCREW 3/8	12	280523	1	INNER DIAPHRAGM CLAMP
2	237686	4	LOCKWASHER 3/8	13	277834	1	OUTER DIAPHRAGM CLAMP
3	231826	8	CAP SCREW 3/8	14	231491	1	DIAPHRAGM
4	201504	8	LOCKWASHER 3/8	15	231490	1	BODY
5	202982	11	LOCKWASHER 5/16	16	231498	1	SPRING
6	204514	11	HEX NUT 5/16	17	289518	1	COVER COMPLETE
7	290682	1	SPRING GUIDE	18	290931	1	BAIL
8	286748	1	PUSH ROD COMPLETE	19	292174	1	RESERVOIR COVER
9	231494	1	DIAPHRAGM GUIDE	20	292175	1	DIAPHRAGM
10	202981	8	LOCKWASHER 1/4	21	287157	1	RESERVOIR BODY COMPL.
11	203105	8	HEX NUT 1/4	22	292214	1	SEAL (BRAKE FLUID)
					292939	1	SEAL (MINERAL OIL)

SUB ASSY AND DETAIL REFERENCE

AH-4 HYD. INTENSIFIER ASSY. PC. NO.	ROTO-CHAMBER ASSY.	MASTER CYLINDER ASSY.	WARNING SWITCH	BOOT	DELIVERY (SEE FIG. 4)		ROTOCHAMBER BRACKET		BRACKET LOCATION	
					LEFT	RIGHT	FRONT	REAR	LEFT	RIGHT
INTEGRAL RESERVOIR (SEE FIG. 2)										
289542	289517	288398*	287131	290959		X	290681	290681		X
REMOTE RESERVOIR (SEE FIG. 1)										
286754	286745	286755	287131	290959		X	290681	290681		X
287070	286745	287069	287131	290959		X	290691	290690	X	
289382	286745	287069	NONE	NONE		X	290691	290690	X	

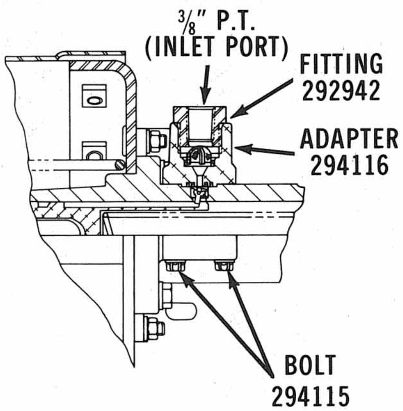
NOTE: ABOVE AH-4 INTENSIFIERS ARE O.E.M. INSTALLED BY MACK
*MINERAL OIL SYSTEM

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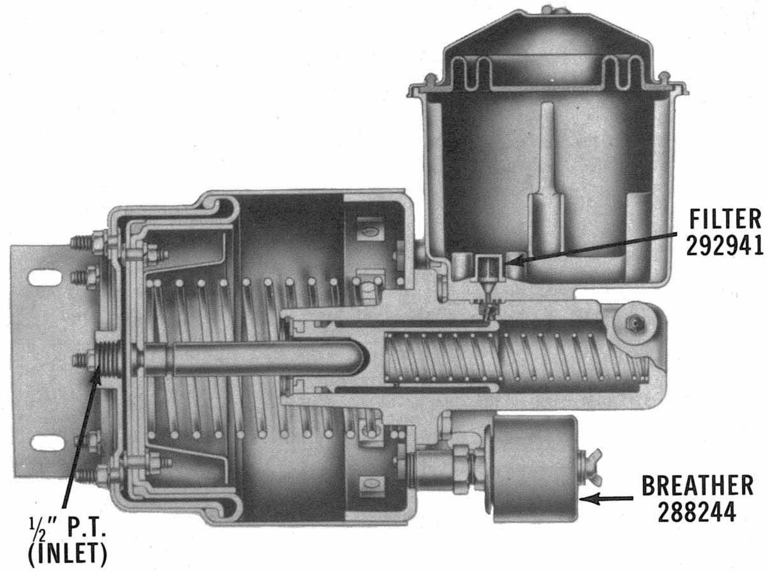
TYPE 50 ROTOCHAMBER

FIG. 1



PARTIAL VIEW
REMOTE RESERVOIR AH-4 ASSY.

FIG. 2



DUST RESISTANT AH-4 ASSY. WITH BREATHER

FIG. 3

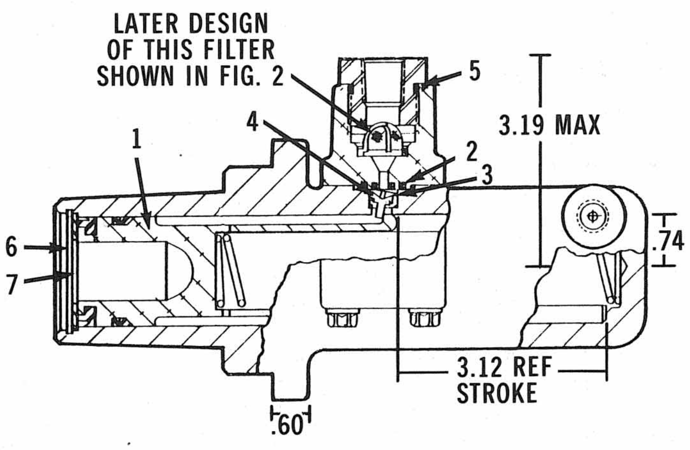
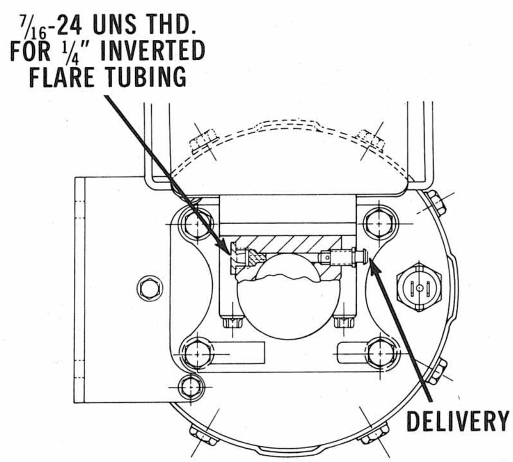


FIG. 4



LEFT HAND MOUNTING BRACKETS —
RIGHT HAND HYDRAULIC DELIVERY

MAINTENANCE KITS FOR MASTER CYLINDERS

FOR BRAKE FLUID — PC. NO. 289286

NO.	PC. NO.	QTY.	DESCRIPTION
1	289283	1	PISTON ASSEMBLY
2	292214	1	SEAL
3	292933	1	POPPET
4	292934	1	SPRING
5	292936	1	O-RING
6	292937	1	WASHER
7	292938	1	RETAINING RING

FOR MINERAL OIL — PC. NO. 289287

NO.	PC. NO.	QTY.	DESCRIPTION
1	289280	1	PISTON ASSEMBLY
2	292939	1	SEAL
3	292933	1	POPPET
4	292934	1	SPRING
5	292216	1	O-RING
6	292937	1	WASHER
7	292938	1	RETAINING RING